



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,266	06/01/2006	Takahisa Ozawa	80508(302721)	3158

7590 08/05/2008
EDWARDS ANGELL PALMER & DODGE LLP
James E. Armstrong, IV
P.O. Box 55874
Boston, MA 02205

EXAMINER

GINSBERG, OREN ISAAC

ART UNIT	PAPER NUMBER
----------	--------------

3764

MAIL DATE	DELIVERY MODE
-----------	---------------

08/05/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/581,266

Applicant(s)

OZAWA ET AL.

Examiner

OREN GINSBERG

Art Unit

3764

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 July 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2 July 2008 has been entered.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinney 1,283,210 in view of Hoshino 2002/1063231.

Regarding claims 1-3, 5, 6, 11, Kinney discloses an exercise device comprising a base 9 fixed in place, a support portion 11 configured to support a part of the user's body such that at least a part of the user's own weight acts on a leg including a femoral region, a coupling mechanism 7, 8 configured to movably couple the support portion to the base such that a load acted on the leg by the user's own weight varies according to a relative positional displacement between a foot position and a position of a center of gravity of the user (page 1 lines 9-19, 86-95) and also configured to limit a movable direction of the support portion such that a direction of the relative positional displacement between the foot position and the position of center of gravity is limited to a direction of flexion and extension of a knee joint of the user (page 1 lines 86-95), the saddle supports the user's buttocks as the support portion (figure 1), and the coupling mechanism is configured to limit the movable directions of the support portion to forward and backward directions with accompanied vertical displacements of the support portion such that the load resulting from the user's own weight and acting on the leg increases as the support portion moves in the forward direction (page 1 lines 9-19).

Kinney teaches the invention as substantially claimed, see above. However, Kinney fails to disclose: a curved saddle support.

Hoshino teaches the saddle has a pair of curved recessed 14, 15 at its outer periphery configured that the femoral region of the user fit the recesses, the curved recesses are configured such that the open angle between the user's leg substantially

Art Unit: 3764

corresponds to flexion and extension of the knee joints (figures 8, 9), the curved recesses are configured such that an open angle between the user's legs is in a range of 30-70 degrees (figure 8), a first bump formed at the forward side (next to stitchings 36 at the front of the saddle as seen in figure 1), a second bump formed at the rearward side 19, the curved recesses are provided between the first and second bump (figure 1), a forward position of the saddle (next to 14, 15 at the front of the saddle as seen in figure 1) is positioned to be lower than a saddle center position with the curved recesses, and a rearward portion of the saddle 19 is positioned to be higher than the saddle center portion.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kinney's seat with Hoshino's saddle in order to place the user's center of gravity directly over the seat to make the seat more comfortable and reduce aches and pains from sitting in the saddle for prolonged periods, as taught by Hoshino (paragraphs 0002, 0009).

Regarding claim 4, Kinney in view of Hoshino teaches the invention as claimed and as discussed above with the exception of the following claimed limitations: the curved recesses are configured such that an inclination angle of the femoral region of the user relative to a vertical direction is in a range of 30-50 degrees under the condition.

However, it has been held in *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955) that "[W]here the general conditions of a claim are disclosed in the prior

art, it is not inventive to discover the optimum or workable ranges by routine experimentation." See in MPEP 2144.05 II.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kinney in view of Hoshino and further in view of Lu 6,189,908.

Kinney in view of Hoshino teaches the invention as substantially claimed, see above. However, they fail to disclose: a backrest detachably attached to a rear portion of the saddle.

Lu teaches a backrest detachably attached to a rear portion of the saddle (figure 2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kinney's seat with Hoshino's saddle and further with Lu's detachable backrest in order to accommodate the back when it is aching, as taught by Lu (column 1 lines 20-21).

Claims 8, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinney in view of Hoshino and further in view of Bavaresco 6,357,825.

Kinney in view of Hoshino teaches the invention as substantially claimed, see above. However, they fail to disclose: a saddle-length adjuster, and a saddle-angle adjuster.

Bavaresco teaches a saddle-length adjuster 10, 11, 12, 18", 19" (figures 1, 2, 7), and a saddle-angle adjuster 10, 11, 12, 18", 19" (figures 1, 2, 7).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kinney's seat with Hoshino's saddle and further with Bavaresco's adjustable saddle in order to reduce stress to the buttocks and backbone, as taught by Bavaresco (column 2 lines 40-50).

Claims 8, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinney in view of Hoshino and further in view of Jamieson 608,682.

Kinney in view of Hoshino teaches the invention as substantially claimed, see above. However, they fail to disclose: a saddle-width adjuster, and a saddle-length adjuster.

Jamieson teaches a saddle-width adjuster 12, 15 (by sliding the seat outward along rail 12 as seen by the dotted lines in figure 1) and a saddle-length adjuster 14, 15 (by sliding one of the sections forward thereby making the overall length of seat longer).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kinney's seat with Hoshino's saddle and further with Jamieson's adjustable saddle in order to adjust the seat to the most comfortable position for the user, as taught by Jamieson (column 1 lines 12-21).

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OREN GINSBERG whose telephone number is (571) 270-3074. The examiner can normally be reached on Mon-Fri, alternate Fri off, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LoAn Thanh can be reached on (571) 272-4966. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/O. G./
Examiner, Art Unit 3764

/LoAn H. Thanh/
Supervisory Patent Examiner, Art Unit 3764